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## Technical Resources - Media Formulations

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)**

Contains 1,000 mg/L D-glucose, L-glutamine, pyridoxine HCl, and 110 mg/L sodium pyruvate.

Dulbecco's Modified Eagle Media are well suited for supporting the growth of a broad spectrum of mammalian cell lines.

Catalog Number: [11885076](#), [11885084](#), [11885092](#)

COMPONENTS	Molecular Weight	Concentration (mg/L)	Molarity (mM)
<b>Amino Acids</b>			
Glycine	75	30	0.400
L-Arginine hydrochloride	211	84	0.398
L-Cystine 2HCl	313	63	0.201
L-Glutamine	146	584	4.00
L-Histidine hydrochloride-H <sub>2</sub> O	210	42	0.200
L-Isoleucine	131	105	0.802
L-Leucine	131	105	0.802
L-Lysine hydrochloride	183	146	0.798
L-Methionine	149	30	0.201
L-Phenylalanine	165	66	0.400
L-Serine	105	42	0.400
L-Threonine	119	95	0.798
L-Tryptophan	204	16	0.0784
L-Tyrosine disodium salt dihydrate	261	104	0.398
L-Valine	117	94	0.803
<b>Vitamins</b>			
Choline chloride	140	4	0.0286
D-Calcium pantothenate	477	4	0.00839
Folic Acid	441	4	0.00907
i-Inositol	180	7.2	0.0400
Niacinamide	122	4	0.0328
Pyridoxine hydrochloride	204	4	0.0196
Riboflavin	376	0.4	0.00106
Thiamine hydrochloride	337	4	0.0119
<b>Inorganic Salts</b>			
Calcium Chloride (CaCl <sub>2</sub> ) (anhyd.)	111	200	1.80
Ferric Nitrate (Fe(NO <sub>3</sub> ) <sub>3</sub> ·9H <sub>2</sub> O)	404	0.1	0.000248
Magnesium Sulfate (MgSO <sub>4</sub> ) (anhyd.)	120	97.67	0.814
Potassium Chloride (KCl)	75	400	5.33
Sodium Bicarbonate (NaHCO <sub>3</sub> )	84	3700	44.05
Sodium Chloride (NaCl)	58	6400	110.34
Sodium Phosphate monobasic (NaH <sub>2</sub> PO <sub>4</sub> ·H <sub>2</sub> O)	138	125	0.906
<b>Other Components</b>			
D-Glucose (Dextrose)	180	1000	5.56
Phenol Red	376.4	15	0.0399
Sodium Pyruvate	110	110	1.000

\*Note: Pyridoxine HCl replaces pyridoxal HCl.

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**Related Products:****Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)**

Contains 1000 mg/L glucose, 4mM L-glutamine and 110 mg/L sodium pyruvate.

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (no glucose)**

Without glucose and sodium pyruvate. Contains L-glutamine and pyridoxine HCl.

**Cat No:** 11966025

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)**

Contains 1,000 mg/L D-glucose, L-glutamine, 25mM HEPES buffer, pyridoxine HCl, and 110 mg/L sodium pyruvate.

**Cat No:** 12320032

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (high glucose)**

Contains 1000 mg/L glucose, 4mM L-glutamine, 110 mg/L sodium pyruvate and 25 mM HEPES.

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) powder (low glucose)**

Without sodium bicarbonate. Contains 1,000 mg/L D-glucose, L-glutamine, pyridoxine HCl and 110 mg/L sodium pyruvate.

**Cat No:** 31600034, 31600083, 31600091

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (high glucose)**

Contains 1000 mg/L glucose and 110 mg/L sodium pyruvate but no L-glutamine or phenol red.

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)**

Contains 1,000 mg/L D-glucose, pyridoxine HCl, and 110 mg/L sodium pyruvate. Without L-glutamine and phenol red.

**Cat No:** 11054020

**Dulbecco's Modified Eagle Medium (D-MEM) (1X) liquid (low glucose)**

Contains GLUTAMAX<sup>TM</sup> (the dipeptide L-Alanyl-L-Glutamine) substituted on a molar equivalent basis for L-glutamine. Contains sodium pyruvate and pyridoxine HCl.

**Cat No:** 10567014

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